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ABSTRACT OF THE DISCLOSURE

Various embodiments and implementations include a system and method for determining distinct occurrences of a pattern in a sequence of time-stamped event instances by determining a maximum cardinality of disjoint occurrences of the pattern in the one or more sequences. The present disclosure also includes estimating an expected quantity of distinct occurrences of a pattern in a sequence of time-stamped events assigned to event categories. The present disclosure further includes identifying a surprise pattern within a sequence of time-stamped events.